



BOILTE SLIM

**POWER YOU CAN PLACE
ANYWHERE**

POWER: 400–2500 kW

TEMPERATURE: up to 115°C

PRESSURE: 6 bar



Boilte Slim

FUEL: GAS / DIESEL / HEAVY FUEL OIL / HEATING OIL / WASTE OIL

The ideal solution for cramped boiler rooms

Standard boilers often require spacious rooms, making boiler room modernisation complex and expensive. Two-pass compact boilers Slim are designed for a different approach. This is a series where priority is given to rational use of space without compromising performance. If you need power up to 2500 kW but free space is limited – Slim is the optimal solution.

The key advantage: Power you can place anywhere. Unlike standard boilers that require significant floor area, Slim is designed with a priority on rational use of every metre of the boiler room.

The core feature of Slim: its outstanding compactness. Choosing a compact two-pass boiler Boilte Slim means gaining the ability to effectively utilise even cramped boiler room spaces, saving precious metres without losing performance. This is an intelligent engineering solution that works for your profit 24/7.

Fuel flexibility: Capability to operate on natural gas, LPG, diesel fuel, heavy fuel oil, light fuel oil, and waste oil. You get a tool for managing energy risks and protection against price fluctuations.

Key advantages (6 reasons to choose Slim)

1. Outstanding compactness – the highest power density in its class. A 2500 kW boiler takes up minimal floor space.
2. Enhanced heat transfer efficiency – design with a developed heating surface and flow turbulators provides efficiency up to 94.5%.
3. Temperature up to 115°C – maintaining the required heat transfer fluid parameters for modern heating systems and process circuits.
4. Structural integrity – manufactured from high-quality thick-sheet metal with gas-tight joints and operation under positive pressure.
5. Design service life – 25 years on natural gas. Lifetime warranty on the shell and load-bearing components.
6. Savings on boiler room construction – reduced building footprint allows capital cost savings of 20–35%.

Engineering excellence

The durability of Boilte Slim is based not just on a promise, but on a technologically verified production process.

1. Integrity guaranteed from the first drawing. Boiler strength is established at the design stage through uniform load distribution. The cylindrical combustion chamber and tube sheets are designed to compensate for cyclic thermal loads, eliminating deformations and micro-cracks. During production, every critical assembly undergoes multi-stage non-destructive testing (radiography, ultrasonic testing). Weld quality and material structure are verified instrumentally, with results recorded in supporting documentation. You are investing in an objectively verified asset.

2. Economy based on physics. The engineered layout with organised movement of the heat transfer fluid and combustion products minimises parasitic heat losses. The effect is enhanced by heat transfer intensifiers (spiral turbulators). The result is reduced ongoing fuel costs while maintaining the required thermal parameters. Every percentage point of efficiency means significant fuel-cost savings each heating season.

3. Operational practicality and stability.

- Modular rear section design simplifies inspection and cleaning of flue gas passages
- Ergonomic location of control and service elements
- Rotating door provides direct access to key components without dismantling the casing
- The system has significant thermal storage capacity (large mass of heat transfer fluid in the circuit), which smooths peak loads in the overall network and increases heat supply stability

4. Modernisation of existing boiler rooms – fitting new equipment into old building footprints without reconstruction.

5. Built-in and attached boiler rooms – maximum utilisation of available space.

6. Manufacturing facilities with dense site layouts – no possibility for building expansion.

Low noise for noise-sensitive environments

The Slim is engineered with special attention to acoustic performance. The burner enclosure and vibration-damped mounting significantly reduce operational noise levels, making it suitable for installation near residential areas, in educational institutions, and in hospital complexes where strict noise limits are enforced. This is achieved without compromising thermal performance or efficiency.

Fields of application

- Rooftop boiler rooms – lightweight and compact for installation on roofs without structural reinforcement. Ideal for shopping centres, offices, residential complexes.
- Containerised modular boiler plants – maximum output in minimal volume. For rapidly deployable boiler plants, shift camps, remote sites.
- Basement boiler rooms – fits through narrow doorways and low ceilings. Installation without dismantling walls or floors.
- Restricted access routes – compact dimensions allow delivery where standard boilers cannot pass.
- Reconstruction of existing boiler rooms – replacement of old units with higher-capacity boilers

in the same footprint. Output increase without building alterations.

- Environmentally sensitive areas – low NOx emissions, suitable for city centres, residential zones, water protection areas, nature reserves. High efficiency – minimum fuel consumption.

Why choose Boilte Slim?

- Lifetime warranty on the heat exchanger and main load-bearing components – an unconditional manufacturer's obligation, legally confirmed.
- Full certification package (GOST, TR EAEU, EN, optionally ASME, PED) – for trouble-free commissioning and inspection by any regulatory authority.
- More stringent manufacturing tolerances – our control and tolerance system is 30% stricter than industry standards. Every critical parameter is checked with a margin, not at the limit.
- Engineering support at every stage – selection, site supervision, commissioning, start-up, staff training, and ongoing service.
- Factory-direct pricing – optimised logistics, no intermediaries, no hidden markups.

Technical specifications

Model, Slim	Power, kW**	Efficiency, %	Boiler resistance, mbar	Water volume, L	Flue gas flow, m ³ /h	Gas consumption, m ³ /h	H, mm	B, mm	L, mm	Dry weight, kg
400	400	92,31	5,6	490	716	43,9	1375	740	1914	883
500	500	92,41	4,8	560	854	54,69	1475	840	1964	1057
600	600	92,71	6,9	640	1011	65,47	1475	840	2264	1206
700	700	92,32	5,7	850	1203	77,03	1475	840	2464	1308
800	800	92,22	3,9	890	1411	88,58	1800	1040	2199	1856
1000	1000	92,21	6,7	1200	1740	101,38	1800	1040	2499	2120
1300	1300	92,11	6,3	1600	2221	112,38	1800	1040	2949	2517
1500	1500	92,51	5,1	1700	2597	120,55	2075	1210	2744	3029
1700	1700	92,71	7	1800	2991	131,72	2075	1210	2949	3237
2000	2000	92,14	8	2000	3457	142,5	2225	1310	3139	3791
2200	2200	92,11	10,1	2200	3750	154,05	2225	1310	3239	3910
2500	2500	92,13	6,8	2700	3921	164,45	2375	1410	3239	4352

****Power:** The values shown correspond to operation on methane (natural gas). When using diesel fuel or heavy fuel oil (mazut), a power adjustment (reduction) may be required in accordance with design standards and fuel-specific calculations.

Boilte reserves the right to modify dimensions and design without prior notice.

Dimensional tolerance: ±0.1–0.2% for all Boilte equipment.

BOILTE[®]
engineered trust

